
PagePro™ 1380 MF

User's Guide

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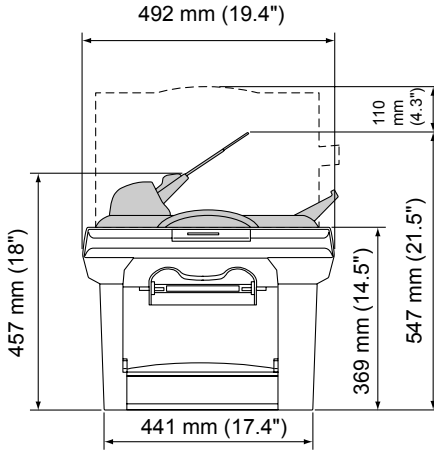
Introduction

1

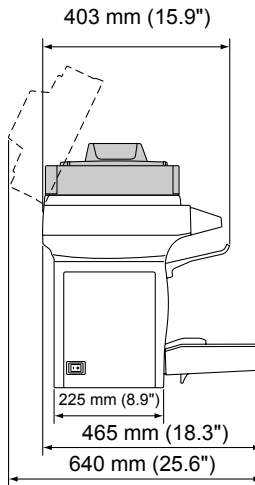
Getting acquainted with your machine

Space requirements

To ensure easy operation, consumable replacement and maintenance, adhere to the recommended space requirements detailed below.



Front View



Side View



The options appear shaded in the above illustration.

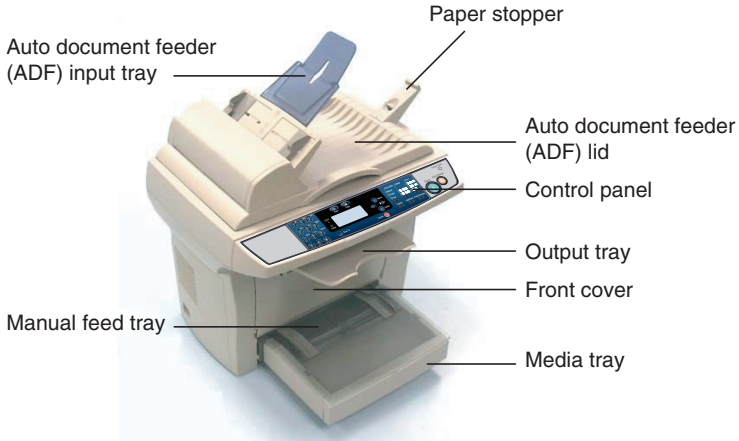
Machine parts



With the optional Auto Document Feeder (ADF) installed

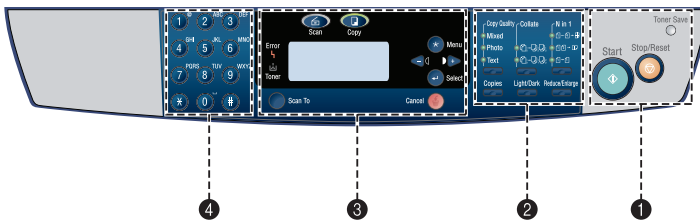
Note





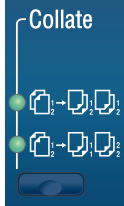
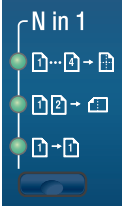


For details on installing the optional ADF, refer to “Installing the Auto Document Feeder (ADF)” on page 93.






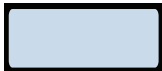








Descriptions of functions using the optional ADF are provided in this manual. However, in order to use those functions, the optional ADF must be purchased separately.

About the control panel



<p>1</p>		<p>Starts a copy or scan job.</p>
		<p>Stops an operation at any time. In Standby mode, clears the copy options.</p>
		<p>Saves toner by using less toner to copy a document.</p>
<p>2</p>		<p>Selects the document type mode for the current copy job.</p>
		<p>Automatically collates multiple copies into sets.</p>
		<p>Reduces original images to fit onto one sheet of paper. Prints 1–4 pages reduced to fit onto one sheet of paper. Prints 1–2 pages reduced to fit onto one sheet of paper. Prints 1 page on one sheet of paper.</p>
		<p>Sets the number of copies. (Pressing the button one time increases the count by one page.)</p>
		<p>Adjusts the document brightness for the current copy job.</p>

		Makes a copy smaller or larger than the original document.
3		Enters Scan mode.
		Enters Copy mode.
		Indicates a media jam has occurred.
		Toner cartridge warning LED Flashes when the toner cartridge is empty or the drum needs to be replaced. Stays on when the toner has been completely consumed, a wrong toner cartridge is used, or the drum needs to be replaced.
		Displays settings and messages.
		Enters Menu mode and displays the menus available.
		Displays the options available for the selected menu.
		Selects the item displayed.
		Scans a document to a designated software program. Available only when LinkMagic is installed.
		Deletes entered data or exits the current menu when pressed repeatedly.
4		Numeric keypad Enters the number of copies.

***About the
Software***

2

System requirements

- Personal computer
Pentium 3: 450 MHz
- Operating system
Microsoft Windows XP Home Edition/Professional, Windows 2000, Windows Me, Windows 98SE
- Free hard disk space
 - Approximately 20 MB of free hard disk space for the printer driver
 - Approximately 128 MB of free hard disk space for image processing
- RAM
More than OS recommendation
- CD-ROM/DVD drive
- I/O interface
USB Revision 2.0 compliant port

Utilities and Documentation CD-ROM

Printer Drivers

Drivers	Use/Benefit
Printer Driver for Windows XP/2000	These drivers give you access to all of the printer features, including finishing and advanced layout. See also “Specifying printer driver settings” on page 38.
Printer Driver for Windows Me/98SE	

TWAIN Driver

Driver	Use/Benefit
TWAIN Driver for Windows XP/2000/Me/98SE	This driver enables you to set scanning functions, such as the color setting and size adjustments. For details, refer to chapter 6, “Scanner Operation.”



For details on the installation of the drivers, refer to the PagePro 1380 MF Installation Guide.

***Control Panel and
Configuration
Menu***

3

Introduction

This machine is designed to be easy to use through LCD on-screen programming with the navigation keys. User-friendly programming helps you take full advantage of all the menu selections offered. The step-by-step on-screen instructions below guide you through the menu selections and programming options.

Menu table

You could probably program the machine without the User's Guide. But to better understand the menu selections and options available, you can refer to the following menu table. Default settings are bolded.

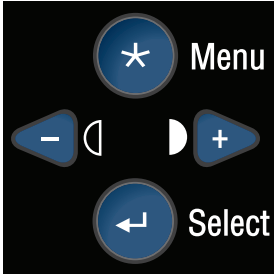
1. Common Setup	11. Language	Select the desired language.
	12. Paper Size	A4 Letter Legal A5 B5
	13. Sleep Mode	5 min 15 min 30 min 1 hr 2 hr
	14. Reset OPC.	
	15. Adj. ADF Edge	-4 -3 -2 -1 0 +1 +2 +3 +4 +5 +6






2. Copy Setup	21. Def Copy Mode	Text Photo Mixed
	22. Def Density	1-7 Levels (4)
	23. Def Zoom	Original (100%) Custom (25-400%) Fit to Paper A4 to Letter Letter to A4 Legal to Letter Legal to A4
	24. Def Collate	Collation On Collation Off
	25. Def TonerSave	TonerSave On TonerSave Off
	26. Def Bg Remove	Text mode (On, Off) Mixed mode (On, Off)

3. Report	31. Configuration	System information
	32. Menu Map	
	33. Usage Report	






Navigation keys

The navigation keys for the LCD on-screen programming are depicted and explained below.



	<p>Cancels the setting or returns to the previous menu level.</p> <p>Exits the menu if pressed repeatedly.</p> <p>Goes back to the previous menu level.</p>
	<p>Opens the menu.</p>
	<p>Goes to the next menu level.</p> <p>Selects an option.</p>
	<p>Scroll buttons.</p> <p>Display the options on the current menu level.</p>
	<p>Exits the menu.</p>

Entering Menu mode

- 1 Press  to enter Menu mode. The LCD displays the menus.
- 2 Press  or a numeric key (1–3) to choose from the following menus: “1. Common Setup”, “2. Copy Setup”, or “3. Report”.
OR
Hold the appropriate scroll button down to navigate more quickly through each menu level.
- 3 Press  to select an option when it appears on the LCD. The LCD displays the next menu level.
- 4 Press  to view the next menu item.
- 5 Press .

When an option has been selected, the LCD displays “Setting OK” on the bottom line. The current setting is always the option with a checkmark (v).

Using Media

4

About media

What sizes of media can I use?

Media	Media Size	
	Millimeters	Inches
A4	210.0 × 297.0	8.2 × 11.7
B5	182.0 × 257.0	7.2 × 10.1
A5	148.0 × 210.0	5.9 × 8.3
Legal	215.9 × 355.6	8.5 × 14.0
Letter	215.9 × 279.4	8.5 × 11.0
Executive	184.2 × 266.7	7.25 × 10.5
Com-10 Envelope	104.8 × 241.3	4.125 × 9.5
C5 Envelope	162.0 × 229.0	6.4 × 9.0
DL Envelope	110.0 × 200.0	4.3 × 7.9
Monarch Envelope	98.4 × 190.5	3.875 × 7.5
Postcard	100.0 × 148.0	3.9 × 5.8

Media types

Before purchasing a large quantity of special media, do a trial print with the same media and check the print quality.

Keep media on a flat, level surface in its original wrapper until it is time to load it.

Plain paper

Capacity	Media Tray	Up to 250 sheets, depending on the paper weight
	Manual Feed Tray	1 sheet only
Orientation	Face up	
Driver Media Type	Plain Paper	
Weight	60 to 90 g/m ² (16 to 24 lb bond)	

Use plain paper that is

- Approved for laser printing

Note

Do not use the media types listed below. These could cause poor print quality, media misfeeds, or damage to the machine.

DO NOT use media that is

- Coated with a processed surface (such as carbon paper, digitally gloss-coated media, and colored paper that has been treated)
- Carbon backed
- Unapproved iron-on transfer media (such as heat-sensitive paper, heat-pressure paper, and heat-press transfer paper)
- Cold-water-transfer paper
- Pressure sensitive
- Designed specifically for inkjet printers (such as superfine paper, glossy film, and postcards)
- Already been printed on by another printer, copier, or fax machine
- Dusty
- Wet (or damp)



Keep media between 30% and 65% relative humidity. Toner does not adhere well to moist or wet paper.

- Layered
- Adhesive
- Folded, creased, curled, embossed, warped, or wrinkled
- Perforated, three-hole punched, or torn
- Too slick, too coarse, or too textured
- Different in texture (roughness) on the front and back
- Too thin or too thick
- Stuck together with static electricity
- Composed of foil or gilt; too luminous
- Heat sensitive or cannot withstand the fusing temperature (205°C [401°F])
- Irregularly shaped (not rectangular or not cut at right angles)
- Attached with glue, tape, paper clips, staples, ribbons, hooks, or buttons
- Acidic
- Any other media that is not approved

Thick stock

Paper thicker than 90 g/m² (24 lb bond) is referred to as thick stock. Test all thick stock to ensure acceptable performance and to ensure that the image does not shift.

Capacity	Media Tray	Up to 10 thick stock sheets, depending on their thickness
	Manual Feed Tray	1 sheet only
Orientation	Face up	
Driver Media Type	Thick Paper	
Weight	91 to 163 g/m ² (25 to 43 lb bond)	

DO NOT use thick stock that is

- Mixed with any other media in the trays (as this will cause misfeeds)

Envelopes

Print on the front (address) side only. Some parts of the envelope consist of three layers of paper—the front, back, and flap. Anything printed in these layered regions may be lost or faded.

Capacity	Media Tray	Up to 10 envelopes, depending on their thickness
	Manual Feed Tray	1 sheet only
Orientation	Face up	
Driver Media Type	Envelope	
Weight	91 to 163 g/m ² (25 to 43 lb bond)	

Use envelopes that are

- Common office envelopes with diagonal joints, sharp folds and edges, and ordinary gummed flaps



Because the envelopes pass through heated rollers, the gummed area on the flaps may seal. Using envelopes with emulsion-based glue avoids this problem.

- Approved for laser printing
- Dry

DO NOT use envelopes that have

- Sticky flaps
- Tape seals, metal clasps, paper clips, fasteners, or peel-off strips for sealing
- Transparent windows
- Too rough of a surface
- Material that will melt, vaporize, offset, discolor, or emit dangerous fumes
- Been presealed

Postcards

Try printing on a sheet of plain paper first to check image placement.

Capacity	Media Tray	Up to 50 postcards, depending on their thickness
	Manual Feed Tray	1 sheet only
Orientation	Face up	
Driver Media Type	Thick Paper	
Weight	60 to 163 g/m ² (16 to 90 lb bond)	

Use postcards that are

- Approved for laser printers

DO NOT use postcards that are

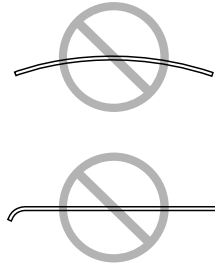
- Coated
- Designed for inkjet printers
- Precut or perforated
- Preprinted or multicolored



If the postcard is warped, press on the warped area before putting it in the tray.



- Folded or wrinkled



Transparencies



Do not fan transparencies before loading them. Resulting static electricity may cause printing errors.



If you touch the face of the transparencies with your bare hands, print quality may be affected.



Remove transparencies as soon as possible from the output tray to avoid static buildup.

You can print continuously with transparencies. However, this could affect the media feed, depending on the media quality, static buildup, and printing environment.

Try printing your data on a sheet of plain paper first to check image placement.

Capacity	Media Tray	Up to 5 transparencies, depending on their thickness
	Manual Feed Tray	1 sheet only
Orientation	Face up	
Driver Media Type	Transparency	

Use transparencies that are

- Approved for laser printing

DO NOT use transparencies that

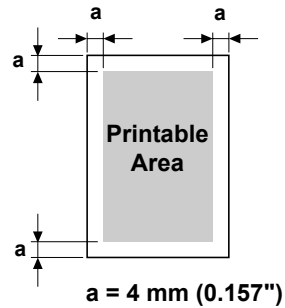
- Have static electricity that will cause them to stick together
- Are specified for inkjet printers only

What is the guaranteed imageable (printable) area?

The printable area on all media sizes is up to 4 mm (0.157") from the edges of the media.

Each media size has a specific imageable area, the maximum area on which the machine can print clearly and without distortion.

This area is subject to both hardware limits (the physical media size and the margins required by the machine) and software constraints (the amount of memory available for the full-page frame buffer). The guaranteed imageable (printable) area for all media sizes is the page size minus 4 mm (0.157") from all edges of the media.

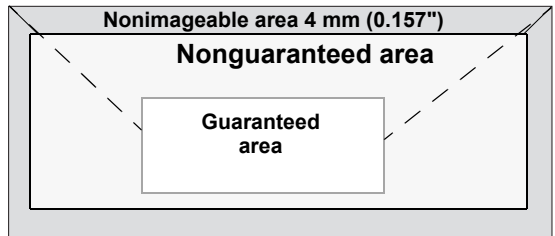


Imageable area—envelopes

Envelopes have a nonguaranteed imageable area that varies with envelope type.



The envelope print orientation is determined by your application.



Page margins

Margins are set through your application. Some applications allow you to set custom page sizes and margins while others have only standard page sizes and margins from which to choose. If you choose a standard format, you may lose part of your image (due to imageable area constraints). If you can custom-size your page in your application, use those sizes given for the imageable area for optimum results.

Media storage

How do I store media?

- Keep media on a flat, level surface in its original wrapper until it is time to load it.

Media that has been stored for a long time out of its packaging may dry up too much and cause misfeeding.

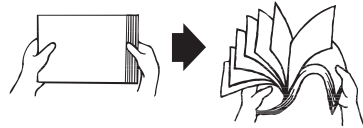
- If media has been removed from its wrapper, place it in its original packaging and store in a cool, dark place on a level surface.
- Avoid moisture, excessive humidity, direct sunlight, excessive heat (above 35°C [95°F]), and dust
- Avoid leaning against other objects or placing it in an upright position.

Before using stored media, do a trial print and check print quality.

Loading media

How do I load media?

Take off the top and bottom sheets of a ream of paper. Holding a stack of approximately 200 sheets at a time, fan the stack to prevent static buildup before inserting it in a tray.



Do not fan transparencies.

Note

Although this machine was designed for printing on a wide range of media types, it is not intended to print exclusively on a single media type except plain paper. Continuous printing on media other than plain paper (such as envelopes, thick stock, or transparencies) may adversely affect print quality or reduce engine life.

When refilling media, first remove any media remaining in the tray. Stack it with the new media, even the edges, then reload it.

Do not mix media of different types and sizes, as this will cause media mis-feeds.

Media tray

- 1 Remove the tray cover from the media tray.



- 2 Squeeze the right media guide and open the media guides.

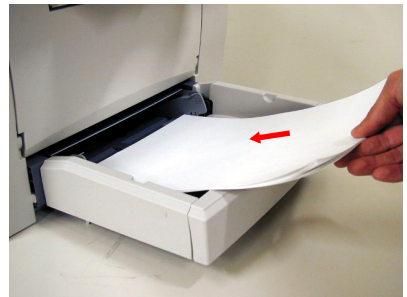


- 3 Load the media lengthwise in the tray with the printing side up.



If media is loaded past the media limit mark, it may not be fed correctly.

For details on how many sheets of each type of media can be loaded in the tray, refer to “Media Types” on page 26.

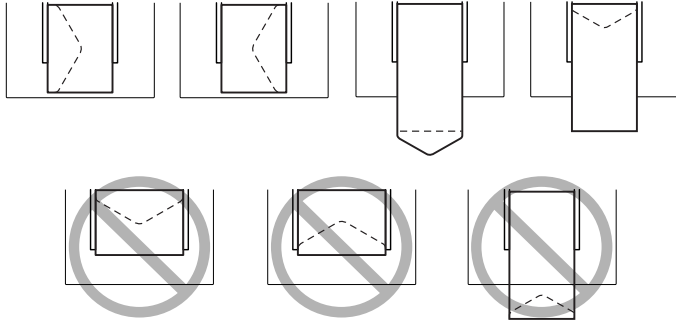




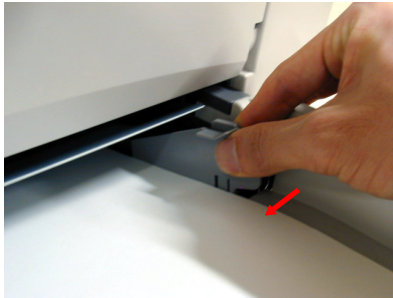
Before loading envelopes, press them down to make sure that all air is removed, and make sure that the folds of the flaps are firmly pressed; otherwise, the envelopes may become wrinkled or a media misfeed may occur.



Load envelopes lengthwise with the side to be printed facing up as shown in the illustration.



- 4** Squeeze the right media guide and adjust the media guides so that both the left and right sides of the media are secure. Then, replace the tray cover on the media tray.



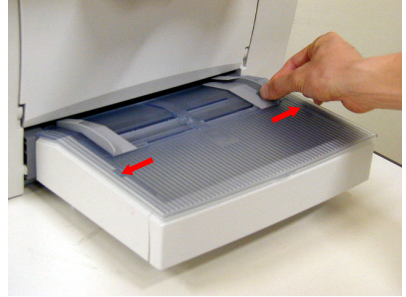
After the envelope is fed into the output tray, immediately open its flap (before it has cooled). Because the envelopes pass through heated rollers, the gummed flaps may seal. Using envelopes with emulsion-based glue avoids this problem.

Manual feed tray

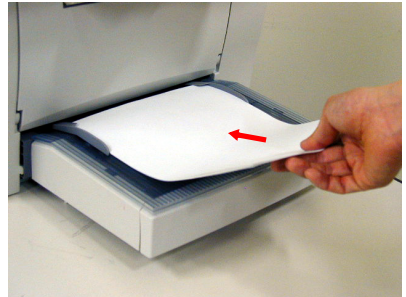


When using the manual feed tray, the media must be fed in one sheet at a time. If the manual feed tray runs out of media during printing, media is automatically supplied by the media tray.

- 1 Make sure that the tray cover is properly attached to media tray.
- 2 Open the media guides.



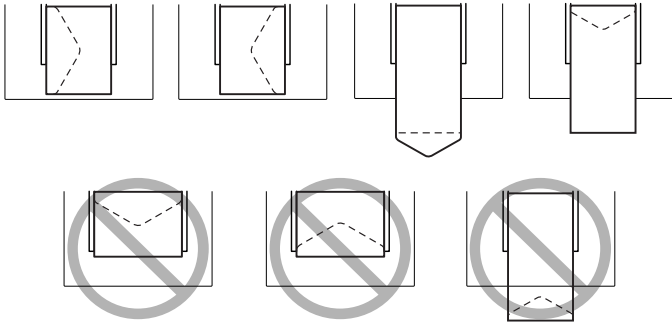
- 3 Insert the sheet of media as far as possible into the manual feed tray with the side to be printed on facing up, and then adjust the media guides so that both sides of media are secure.



Before loading envelopes, press them down to make sure that all air is removed, and make sure that the folds of the flaps are firmly pressed; otherwise, the envelopes may become wrinkled or a media misfeed may occur.



When loading envelopes, load them lengthwise with the side to be printed facing up as shown in the illustration.



After the envelope is fed into the output tray, immediately open its flap (before it has cooled). Because the envelopes pass through heated rollers, the gummed flaps may seal. Using envelopes with emulsion-based glue avoids this problem.

Printer Operation

5

Specifying printer driver settings

Windows XP

- 1 From the **start** menu, choose **Printers and Faxes** to display the **Printers and Faxes** directory.
- 2 Right-click the KONICA MINOLTA PagePro 1380 MF printer icon and choose **Printing Preferences**.
The **Basic** tab displays first.

Windows 2000/Me/98SE

- 1 From the **Start** menu, point to **Settings**, and then click **Printers** to display the **Printers** directory.
- 2 Display the printer driver settings:
 - **Windows 2000**—Right-click the KONICA MINOLTA PagePro 1380 MF printer icon and choose **Printing Preferences**.
 - **Windows Me/98SE**—Right-click the PagePro 1380 MF printer icon and choose **Properties**, then select **Printer Properties**.
The **Basic** tab displays first.

Using the printer driver

Common buttons

The buttons described below appear on each tab.

OK

Click to exit the Properties dialog box, saving any changes made.

Cancel

Click to exit the Properties dialog box without saving any changes made.

Apply

Click to save all changes without exiting the Properties dialog box.



*Depending on the version of the operating system, **Apply** may not appear.*

Basic tab

The following parameters can be set from the Basic tab.

Orientation

- “Portrait” prints across the width of the page, letter-style.
- “Landscape” prints across the length of the page, spreadsheet-style.

Copies

Allows you to set the number of copies to be printed. You can enter up to 99.

When “Collate” is selected, one complete copy of the document is printed before the next copy is printed. When “Collate” is not selected, all copies of a single page are printed before the next page is printed.

“N to 1” allows you to print the document pages in reverse order.

Effect

The following resolution settings are available.

- 600 dpi

“Print Density” adjusts the density level of the printer document between 1 (lighter) and 7 (darker).

“Toner Save” allows you to save toner by using less toner to print a document.

“Invert” inverts the brightness and colors of the printed image.

Paper tab

The following parameters can be set from the Paper tab.

Paper

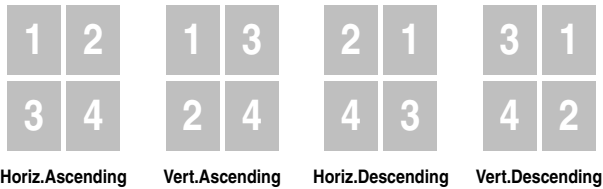
- “Original Size” allows you to set the size of media loaded in the media tray.
- “Media Type” allows you to choose the desired media type.

Layout tab

The following parameters can be set from the Layout tab.

N-up

- You can select the number of document “pages” to print on a single sheet of paper. When printing more than one page per sheet, the pages will appear decreased in size and arranged on the sheet. You can print 2, 4, or 9 pages on one sheet. From the “N-up” drop-down list, select the number of pages you want to print per sheet.
- From the “Border” drop-down list, you can select a border to print around each page on the sheet.
- From the “Order” drop-down list, select the desired page order.



Output Paper Size

Allows you to scale the print job on a page (25% - 400%).

Note

If any setting other than “Off” is selected for “Border,” “Order” cannot be set.

Watermark tab

The following parameters can be set from the watermark tab.

You can add a logo or text to your document as a watermark. You can use a bitmap file or text file that you have created.

1st Page Only

Select this option to put the watermark or bitmap file only on the first page.

Text Watermark

Click **New/Add** to open the Watermark dialog box, allowing you to specify various settings for your watermark text.



*When using a text watermark, select **String**.*

Bitmap

Click **Specify** to select a bitmap file.



*When using a bitmap, select **Image**.*

Uninstalling the printer driver

This section describes how to uninstall the PagePro 1380 MF Printer Driver if necessary.

- 1 From the **Start** menu, choose **Programs** (Windows XP: **All Programs**), then **PagePro 1380 MF**, and then **Uninstall Driver**.
- 2 In the dialog box, click **Yes**.
- 3 The PagePro 1380 MF driver will be uninstalled from your computer.

***Scanner
Operation***

6

Introduction

This machine allows you to scan from a TWAIN-compliant or plug-in application. Since the scanner driver is not stand-alone software, it has to be started from a TWAIN-compliant application to be able to scan and load an image to your computer. The command to start the scanner driver may vary depending on the application. To determine the correct command, refer to the user manual for the application.

User interface operation



Do not open the ADF lid while documents loaded into the ADF are being scanned.

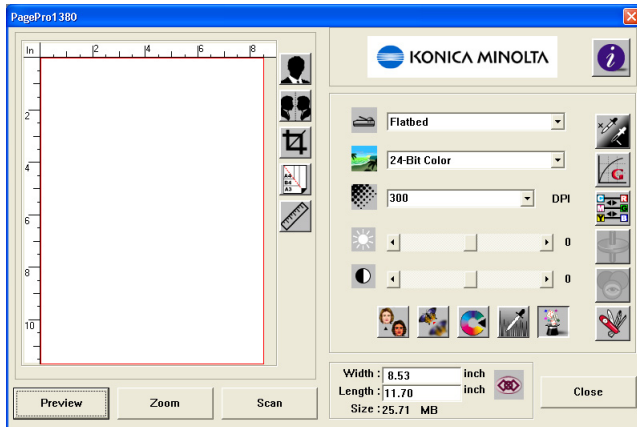
- 1 Place the original document face down on the flatbed glass and align its center with the arrow mark on the glass. If the optional ADF is installed, put the top end of the document stack into the ADF input tray face up and with the first page to be copied on top of the stack.



Before loading the document in the ADF, check that no document pages remain on the flatbed glass.

- 2 Start the TWAIN scanning application.
- 3 From the **File** menu, click **Select Source**. If **Select Source** is not available in the **File** menu, refer to the application's user manual to determine how the TWAIN link is used. A dialog box with a list of scanning sources appears.
- 4 Select or import **PagePro 1380 MF**. You need to select the source only once, unless you want to choose a different scanner.

- 5 A dialog box containing scanning settings appears.



- 6 From the Scan Method drop-down list, select the desired scanning method.
- 7 From the Image Type drop-down list, select the desired scanning mode.
- 8 From the Resolution drop-down list, select a scanning resolution.
- 9 Select desired scanning settings such as Sharpen or Descreen.
- 10 Click **Preview** or **Scan** to preview or scan your document(s).

Scan method



You can select how to scan from the Scan Method drop-down list.

- Flatbed: Use this setting if you are scanning one page at a time using the flatbed.
- Simplex/Multi-page: Use this setting if you are scanning a multi-page document using the optional auto document feeder (ADF).

Selecting the proper image type

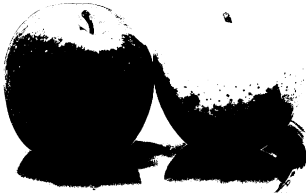


Select the appropriate image type for your purpose through the scanner user interface.

The different image types are described below.

Black and White

Black and White represents the image in black and white only, without intermediate shades of gray in-between. That means each pixel of the image is either 100% black or 100% white. Black and White is the best choice of image type for scanning text or a pen or ink drawing. Since only 1 bit of black or white information is required for each *pixel* ✱, the disk space required for saving a line art image is only about 1/24 of that required to save a 24-bit True Color image.



Black and White Image

✱ A combination of the words “picture” and “element,” a pixel is a single dot on a computer display or in a digital image.

8-Bit Gray

A single-channel image consists of at least 256 shades of gray. An 8-bit scanner produces a grayscale image with 1,024 shades of gray between pure black and pure white. Choose this option for scanning black-and-white photographs.

With 8 bits of color information per pixel, the file size of an image is eight times larger than that of a black-and-white image and 1/3 the size of a 24-bit color image.



8-Bit Gray Image

24-Bit Color

A 24-bit color image consists of three 8-bit color channels. The red, green, and blue channels are mixed together to create a combination of one billion colors, which give a more true-to-life quality to the image. Choose “24-Bit Color” for scanning color photos.



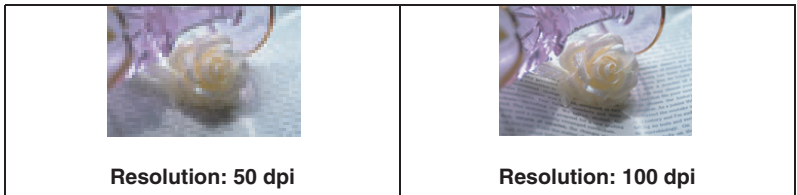
24-Bit Color Image

Selecting the proper resolution



Good control of the resolution results in satisfactory details in the scanned image. The resolution is measured in dots per inch (dpi). Typically, the greater the dpi, the higher the resolution and image file size.

Be aware that a greater resolution requires more time, memory, and disk space. Note that above a certain dpi, the resolution does not visually improve the image, but only makes your file larger.



For your information, an A4-sized color image scanned at 300 dpi in True Color mode consumes approximately 25 MB of disk space. A higher resolution (over 600 dpi) is recommended only when you need to scan a small area in True Color mode.



Refer to the following table to choose the proper resolution for your image, depending on the application.

Scanner Setting Application	Image Type	Resolution (dpi)
Filing, faxing, e-mailing a document	Black and White	200
Viewing, copying, editing a color picture	24-Bit Color	100
OCRing * a document	Black and White	300

* **O**ptical **C**haracter **R**ecognition: the process of converting an image to text



If a resolution higher than 600 dpi was selected, a warning message appears. To automatically set the resolution to 300 dpi and begin scanning, click **OK**. To begin scanning with the selected resolution, click **Cancel**.

Enhancing the image

Brightness



Adjusts the lightness or darkness of an image. The higher the value, the brighter the image.

Decreasing brightness



Increasing brightness



Contrast



Adjusts the range between the darkest and the lightest shades in the image. The higher the value, the bigger the difference in gray scales.

Decreasing contrast



Increasing contrast



Invert Image



Inverts the brightness and color in the image. With color images, each pixel will be changed to its complementary color.

Original



After inversion



Mirror



Creates a mirror (or reverse) image.



Mirror function off



Mirror function on

Preview Auto-Area



Automatically crops the scan area of the previewed document. This then becomes the cropping area for all scanned documents until it is changed again.

Original Size



Select a size from the Paper Size list of frequently used scan sizes, including card (4 x 2.5 in), Photo (5 x 3.5 in), Photo (6 x 4 in), B5, A5, A4, Letter, or your current scan area, to perform an immediate selection of the scan size.

Units



Indicates the measuring unit in use (inch, cm, or pixel).

Descreen



Displays a drop-down list that allows you to specify the type of document you are scanning in order to eliminate the moiré pattern ✱ commonly found in printed matter. You can specify “Newspaper,” “Magazine,” or “Catalog.”



Before Descreen



After Descreen

✱ An undesirable pattern resulting from the incorrect screen angle of the overprinting halftone

Sharpen



Displays a drop-down list that allows you to specify a level of sharpening the scanned image. You can specify “Light,” “More,” “Heavy,” or “Extra Heavy.”

Color Adjustment



Makes the Hue / Saturation / Lightness function available.



The Advanced Settings button must be clicked in order to use the Hue / Saturation / Lightness function. (See page 54.)

Auto Level



Adds shadows to reveal more details in an image.

Advanced Settings



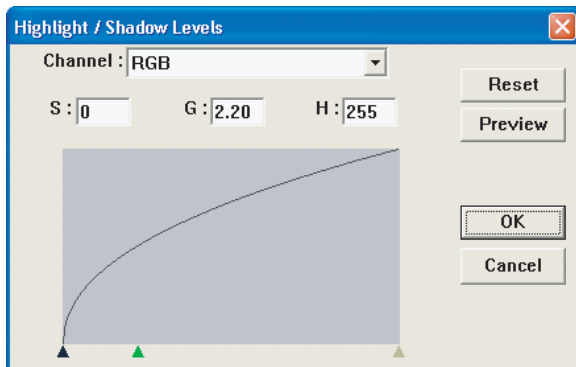
Displays the following six Advanced Settings buttons on the right side of the TWAIN dialog box: Highlight / Shadow Levels, Curves, Color Balance, Hue / Saturation / Lightness, Color Drop-out, and Custom Settings.

Highlight / Shadow Levels



This function is available when “8-Bit Gray,” or “24-Bit Color” is selected from the Image Type drop-down list. “H (Highlight)” refers to the lightest point in a scanned image, “S (Shadow)” to the darkest.

Clicking on the Highlight / Shadow button displays the Highlight / Shadow Levels dialog box. To specify values, you can either type them into the boxes, or you can place the mouse cursor on the line, click the right mouse button, then drag the line.



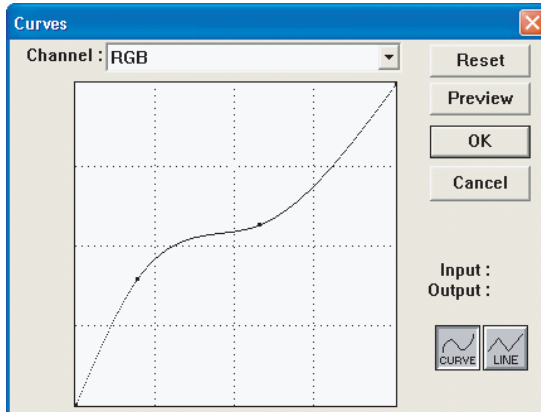
Use the Highlight / Shadow settings to extend the range of color and reveal more details in a color image.

Curves



Displays a dialog box that allows you to adjust the midtone of the image without losing details in the lightest and darkest areas.

Click **CURVE** or **LINE**, depending on whether you want a curved or an angled line. To change the curve, place the mouse cursor on the line, click the right mouse button, and then drag the line.

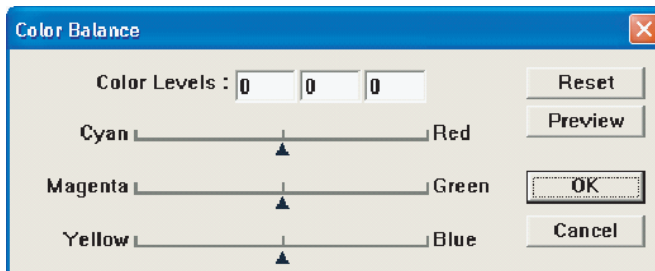


Color Balance



Displays a dialog box that allows you to adjust the color of the image so that it comes close to that of the original.

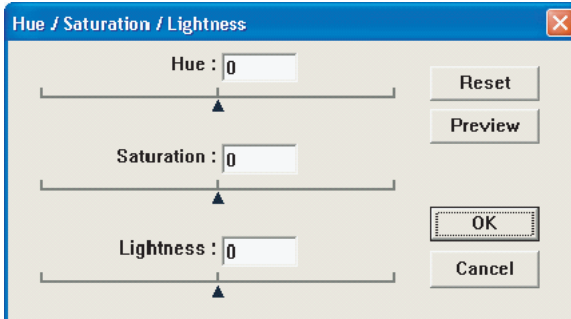
To adjust the image, you can either type values in the Color Levels boxes, or you can drag the color sliders.



Hue / Saturation / Lightness



Adjusts the hue, saturation, and lightness of an image. This button becomes available when the Color Adjustment button is clicked. You can type values in the boxes, or you can drag the sliders.



Hue

Specify a value in the Hue box to adjust the hue.

Note that the level of intensity of a color changes as the hue is adjusted.

Saturation

Specify a value in the Saturation box to adjust the saturation level of the color. The level of saturation indicates whether the color is pale or rich.

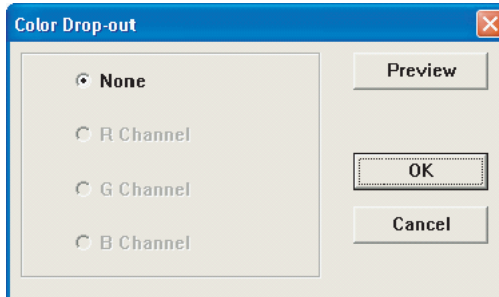
Lightness

Specify a value in the Lightness box to adjust the color strength.

Color Drop-out



This function is available when “Black and White” or “8-Bit Gray” is selected from the Image Type drop-down list. Clicking on Color Drop-out displays a dialog box that allows you to remove the R (Red), G (Green), or B (Blue) color channel from the scan.



For example, if your image contains red text or a red background, choose “R Channel” (red) to remove the red text or red background.

This function applies only to black-and-white or grayscale images. Make sure that you have selected a “Black and White” or “8-Bit Gray” image type from the Image Type drop-down list when using this option.



Increasing the brightness after removing one of the color channels makes the image clearer.

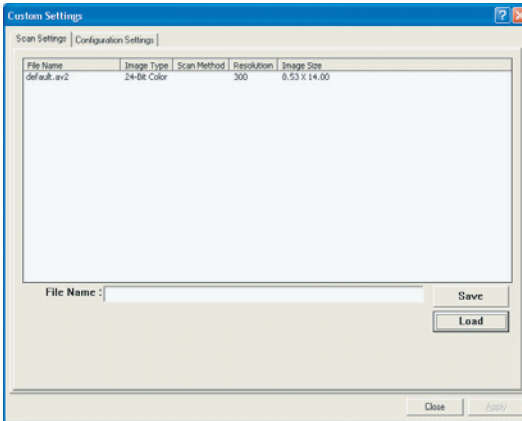
Custom Settings



Displays a dialog box where you can save your scanning and configuration settings. There are two tabs: Scan Settings and Configuration Settings.

Scan Settings

The Scan Settings tab allows you to save your scanning settings in a file, load an existing file, or delete an existing file.



- Saving a Scan Settings file

Type a name for your settings in the File Name box, and then click **Save**. Your settings are saved, and the file name appears in the list box.

- Using a Scan Settings file

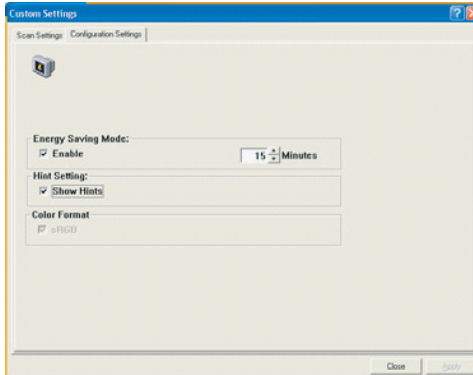
To use an existing Scan Settings file, right-click on the file name for the settings you want to use, and then click **Load**. The settings in the file are automatically specified in the scanning dialog box.

- Deleting a Scan Settings file

To delete a file, click the file name, and then press Delete on the computer keyboard. You cannot delete the default Scan Settings file “default.av2.”

Configuration Settings

The Configuration Settings tab allows you to customize some special settings.



- Energy Saving Mode

Select “Enable” to enable Energy Saving. You can specify a time delay in the Minutes box. Click **Apply** to save the changes.

- Hint Setting

Select “Show Hints” to have flags show the name of an item when you place the mouse cursor on an item in a dialog box. Click **Apply** to save the changes.

Width / Length / Size

- Width:

Shows the current image width.

- Length:

Shows the current image length.

- Size:

Shows the current file size of the scanned image.

Lock Scale



The image that is scanned is enlarged/reduced while maintaining the height-to-width ratio.

The scale value automatically changes when you apply this option and resizes the selected area.

Information



Displays a window that gives you information about the scanner and Twain driver.

Preview

Scans the document so you can review the scanned image. This allows you to specify an area to be scanned and any scanning settings to be used for future scans. When a scan setting is changed and applied, the preview image is updated for a real-time view of the change.

You can define the area to be scanned by dragging the cursor lines with the mouse.

Zoom

Previews a selected area.

Scan

Scans the area with the specified settings.

You can define the area to be scanned by dragging the cursor lines with the mouse.

Close

Closes the dialog box.

Copying

7

Entering Copy mode

Before making copies, make sure that  is lit in green. Otherwise, press



to enter Copy mode. Copy mode is the default setting.

Loading original documents to copy

To place a document onto the flatbed glass

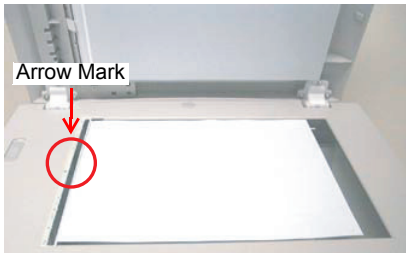
1 Remove all documents from the ADF (if it is installed).



If you are using the flatbed to scan, do not load any documents into the ADF.

2 Lift the document cover or ADF lid.

3 Place the original document face down on the flatbed glass and align its center with the arrow mark on the glass.



4 Gently close the document cover or ADF lid. Closing it too quickly may cause the document to move on the flatbed glass.

5 Customize the copy settings by using the control panel buttons. Refer to “Setting copy options” on page 61. To cancel settings, press Stop/Reset.

6 Press Start to begin copying.

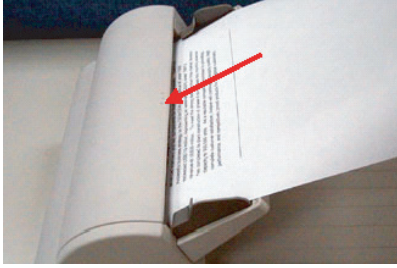
To load documents into the optional ADF input tray



Do not open the ADF lid while documents loaded into the ADF are being scanned.

1 Make sure that there is no document on the flatbed glass.

- 2 Put the top end of the document stack into the ADF input tray face up and with the first page to be copied on top of the stack.



- 3 Adjust the guides to the document size.
- 4 Customize the copy settings by using the control panel buttons. See “Setting copy options” below. To cancel settings, press Stop/Reset.
- 5 Press Start to begin copying.



If multiple copies are printed with the ADF, the memory may become full and only one copy may be printed, depending on the selected copy settings. When making copies with multiple copy settings selected, such as the image type and the Collate function, copy each set individually.

Setting copy options

The buttons on the control panel can be used for all the basic copy options. Set the following options for the current copy job before pressing Start to make the copies.

Light/Dark



If the original document contains faint markings and dark images, you can adjust the brightness to make a copy that is easier to read.

To adjust the density:

- 1 Press Light/Dark.
- 2 Repeatedly press Light/Dark to find the desired density setting.

Copy Quality



You can improve the copy quality for your type of document.

To select the copy mode type, press Copy Quality. Each time you press the button, the LED labeled with the selected mode comes on.

You can choose from the following copy modes.

- Mixed: For documents with mixed text and graphics
- Photo: For photographs
- Text: For documents containing mostly text

Reduce/Enlarge



You can select the following enlargement or reduction ratios.

Ratio:

Original (100%)

Custom (25-400%)

Fit To Paper

A4 to Letter (94%)

Letter to A4 (97%)

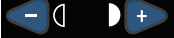
Legal to Letter (78%)

Legal to A4 (83%)


“Fit To Paper” calculates the ratio that fits the size of your media. A document where the image is printed to the edges of the paper can be slightly reduced so that no part of the image is cut off in the copy. “Custom” allows you to set a ratio between 25% and 400% in 1% increments.

To select from the predefined copy sizes

- 1 Press Reduce/Enlarge. The default setting appears on the bottom line of the display.

- 2 Press Reduce/Enlarge or a scroll button  to find the desired size setting.
- 3 Press Select to make the selection.

To fine-tune the size of the copies

- 1 Press Reduce/Enlarge.
- 2 Press Reduce/Enlarge or a scroll button  until “Custom:xx%” appears on the bottom line of the display.
- 3 Use the numeric keypad to enter the desired copy size.
- 4 Press Select to make the selection.

Copies



Using the Copies, you can set a number of copies from 1 to 99.

Repeatedly press Copies Count until the desired number appears on the display.

OR

Enter the number of copies by using the number keypad.

OR

Use the scroll buttons  to find the desired setting. (Holding a scroll button pressed displays the numbers more quickly.)

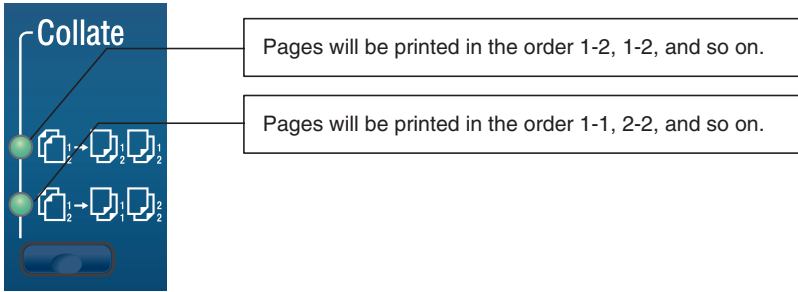
Collate

To sort multiple copies, use the optional ADF. Document pages are printed in the order 1-2, 1-2, and so on.

To use the Collate function, press Collate.

Each time you press the button, the LED labeled with the selected mode comes on.

You can choose from the following Collate modes.




The number of pages to be collated depends on the scan mode and the original document.



If you load the original document into the ADF, the function automatically starts scanning all the pages. If you place the document on the flatbed glass, manually perform the following operation.

- 1 Place the original document face down on the flatbed glass and align its center with the arrow mark on the glass.
- 2 Gently close the document cover or ADF lid.
- 3 Press Collate.
- 4 Select the number of copies to collate.



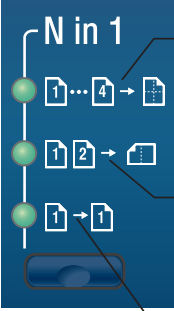
- 5 Press . The LCD displays "Continue: START Finish : *".
- 6 Place the next document page on the flatbed glass. Press Start. The LCD displays "Continue: START Finish : *"
- 7 Repeat the previous step to finish scanning all pages of the document.
- 8 Press "*" on the number keypad to start collating.
- 9 The machine starts printing according to the selected Collate option.

N in 1

To use the N in 1 function, press N in 1.

Each time you press the button, the LED labeled with the selected mode lights.

You can choose from the following N in 1 modes.



The diagram shows a blue vertical menu titled "N in 1" with three green circular indicators. The top indicator is next to a row of four document icons with arrows pointing to a single larger document icon. The middle indicator is next to a row of two document icons with arrows pointing to a single larger document icon. The bottom indicator is next to a row of one document icon with an arrow pointing to a single larger document icon. A red oval highlights the bottom indicator. Three lines connect the indicators to text boxes on the right.

Prints 4 original images reduced to fit onto one sheet of paper.

Prints 2 original images reduced to fit onto one sheet of paper.

Prints 1 original image reduced to fit onto one sheet of paper.




The N in 1 function does not support the Collate or Zoom functions.



If you load the original document into the ADF, the function automatically starts scanning all the pages. If you place the document on the flatbed glass, manually perform the following operation.

- 1 Place the original document face down on the flatbed glass and align its center with the arrow mark on the glass.
- 2 Gently close the document cover or ADF lid.
- 3 Press N in 1 to select your option.



- 4 Press . The LCD displays "Continue: START Finish : *"
- 5 Place the next document page on the flatbed glass. Press Start. The LCD displays "Continue: START Finish : *"
- 6 Repeat the previous step to finish scanning all pages of the document.
- 7 The machine starts printing. (If you selected "Prints 2 original images reduced to fit onto one sheet of paper," the machine scans two pages, then prints out one. If you selected "Prints 4 original images reduced to fit onto one sheet of paper," the machine scans four pages, then prints out one.)

To quit the N in 1 function

Suppose you selected "Prints 2 original images reduced to fit onto one sheet of paper" and want to quit the N in 1 function after scanning the first of two document pages.

- 1 Place the original document face down on the flatbed glass and align its center with the arrow mark on the glass.
- 2 Press N in 1 to select “Prints 2 original images reduced to fit onto one sheet of paper”.
- 3 Press Start. The LCD displays “Continue: START Finish : *”
- 4 Press “*” on the number keypad to quit the N in 1 function. The machine prints the first document page. (If you do not press any key on the control panel for about 30 seconds, the machine automatically prints the first page.)

Toner Save



You can conserve toner using this function. When you turn on Toner Save, print appears somewhat lighter. The default setting is off.




Each time you press Toner Save on the control panel to turn on the function, the LED labeled “Toner Save” comes on.

If you press Toner Save on the control panel again to turn off the function, the LED labeled “Toner Save” goes off.

Changing the default menu settings




The copy options—Density, Copy Mode, Zoom, Collate, Background Remove, and Toner Save—can be set to the most frequently used ones. When you copy a document, the default settings are used, unless they are changed by using the corresponding buttons on the control panel.

To update the default Copy Mode setting




- 1 Press .
- 2 Press a scroll button  until “2. Copy Setup” appears on the display.
- 3 Press .
- 4 Press a scroll button until “21. Def Copy Mode” appears on the display.
- 5 Press Select.

- 6 Press a scroll button to select the desired Copy Mode item.
- 7 Press Select to make the selection.

To update the default Density setting

- 1 Press .
- 2 Press a scroll button  until “2. Copy Setup” appears on the display.
- 3 Press .
- 4 Press a scroll button until “22. Def Density” appears on the display.
- 5 Press Select.
- 6 Press a scroll button to select the desired Density level.
- 7 Press Select to make the selection.

To update the default Zoom setting

- 1 Press .
- 2 Press a scroll button  until “2. Copy Setup “appears on the display.
- 3 Press .
- 4 Press a scroll button until “23. Def Zoom “appears on the display.
- 5 Press Select.
- 6 Press a scroll button to select the desired Zoom item.
- 7 Press Select to make the selection.

To update the default Collate setting

- 1 Press .

2 Press a scroll button  until “2. Copy Setup “appears on the display.

3 Press .

4 Press a scroll button until “24. Def Collation “appears on the display.

5 Press Select.

6 Press a scroll button to turn on or off the Collate function.

7 Press Select to make the selection.

To update the default TonerSave setting

1 Press .

2 Press a scroll button  until “2. Copy Setup “appears on the display.

3 Press .

4 Press a scroll button until “25. Def TonerSave“appears on the display.

5 Press Select.

6 Press a scroll button to select the desired TonerSave setting.

7 Press Select to make the selection.

To update the default Background (Bg) Remove setting

1 Press .

2 Press a scroll button  until “2. Copy Setup “appears on the display.

3 Press .

4 Press a scroll button until “26. Def Bg Remove“appears on the display.

5 Press Select.

- 6 Press a scroll button until the desired media mode appears on the display (Text mode, Photo mode, Mixed mode).
- 7 Press Select.
- 8 Press a scroll button until the desired setting appears on the display.
- 9 Press Select to make the selection.

***Replacing
Consumables***

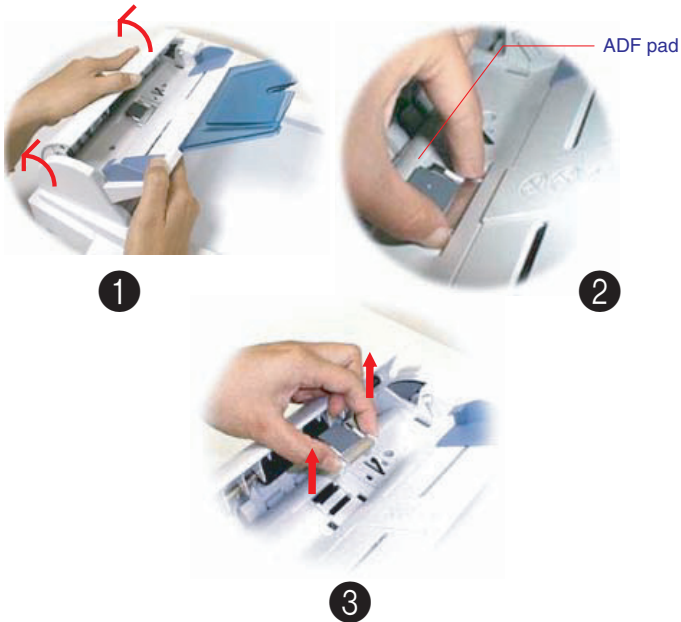
8

Replacing the ADF pad

After scanning approximately 50,000 pages through the optional ADF, the pressure pad may be worn out and you may experience problems with document feeding. In this case, it is highly recommended that you replace the pad with a new one. Consult your nearest dealer to order an ADF pad, and follow the procedure below to replace it.

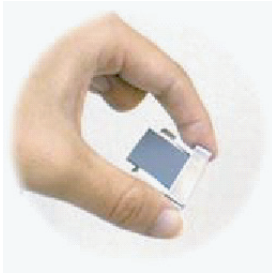
Deinstallation

- 1 Gently open the ADF cover.
- 2 Press both arms of the ADF pad inwardly with your fingers and then pull out the ADF pad.



Installation

- 1 Remove the ADF pad from the box.
- 2 Press both arms of the ADF pad inwardly with your fingers.



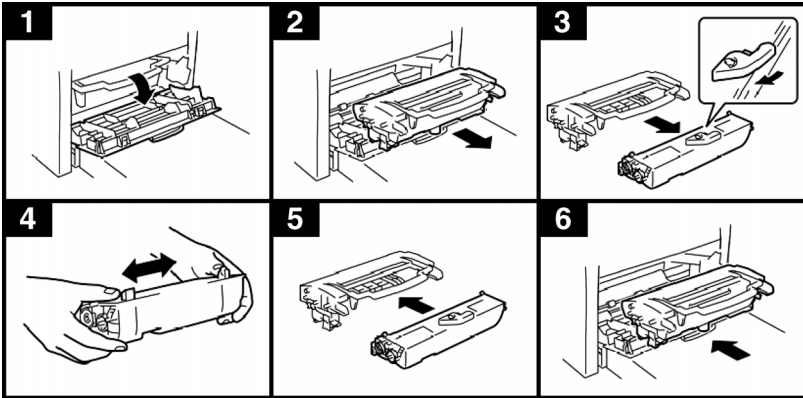
- 3 Place the pad into the holes until it snaps into place.



- 4 Close the ADF cover.

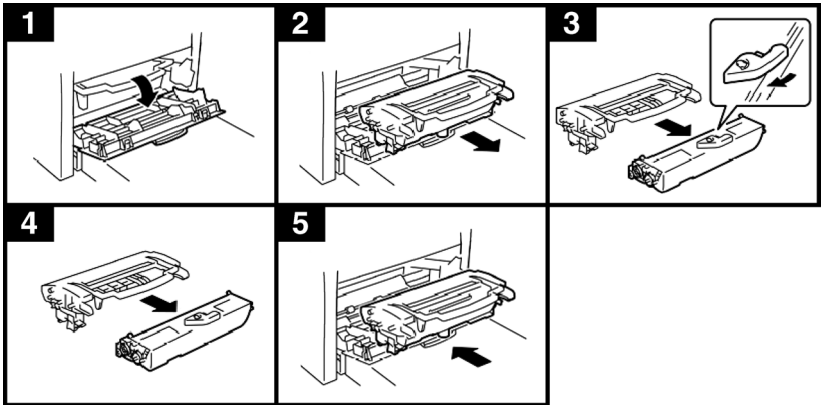
Replacing the toner cartridge

- 1 Open the front door.
- 2 Remove the drum and toner cartridge from the machine.
- 3 Release the toner cartridge as shown.
- 4 Gently rock the new toner cartridge from side to side several times to distribute the toner evenly inside the cartridge.
- 5 Insert the new toner cartridge as shown, until it clicks into place.
- 6 Install the drum and toner cartridge.
- 7 Close the front door.



Replacing the drum cartridge

- 1 Open the front door.
- 2 Remove the drum and toner cartridge from the machine.
- 3 Release the drum cartridge as shown.
- 4 Insert the new drum cartridge as shown, until it clicks into place.
- 5 Install the drum and toner cartridge.
- 6 Close the front door.
- 7 In the configuration menu, select 1. Common Setup/14. Reset OPC. to reset the drum cartridge counter.



Maintenance

9

Cleaning the optional ADF

From time to time the ADF pad and feeding rollers may become contaminated with ink, toner particles, or paper dust. In this case, documents may not feed smoothly. If this occurs, follow the cleaning procedure described below.

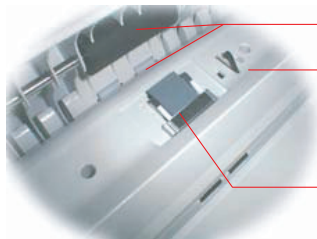
- 1 Moisten a cotton swab with isopropyl alcohol (95%).
- 2 Gently open the ADF cover.
- 3 Wipe the feeding rollers by moving the swab from side to side. Rotate the rollers forward with your finger and repeat the above cleaning procedure until the rollers are clean. Be careful not to snag or damage the pick springs.
- 4 Wipe the pad from top to bottom. Be careful not to snag the pick springs.
- 5 Close the ADF.



1



2



Feeding roller

Pick spring

ADF pad

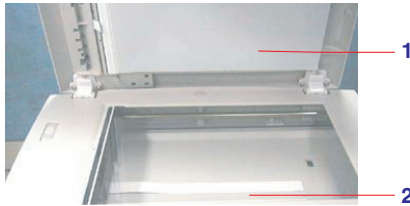
3

Cleaning the flatbed glass

The machine is designed to be almost maintenance-free. However, it still needs to be cleaned occasionally to ensure optimum image quality and performance.

To clean the flatbed glass:

- 1 Open the document cover.
- 2 Moisten a soft clean cloth with isopropyl alcohol (95%).
- 3 Gently wipe the flatbed glass and the white sheet under the document cover to remove dust or toner particles.
- 4 Close the document cover.



1. Document cover
2. Flatbed glass

Troubleshooting

10

Media misfeeds

Clearing a media misfeed

- 1 Open the front door.
- 2 Remove the toner cartridge.



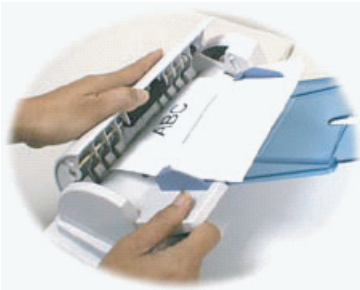
- 3 Remove the jammed media.



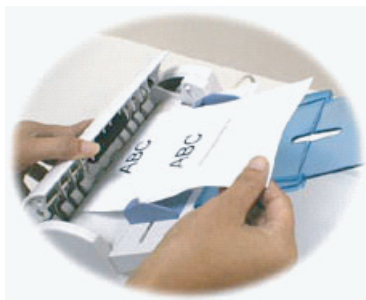
- 4 Reinsert the toner cartridge.
- 5 Close the front door.

Clearing a media misfeed in the optional ADF

- 1 Gently open the ADF cover.



- 2 Carefully pull the jammed paper out of the ADF.



- 3 Close the ADF front cover.



Printing reports

You can print three types of reports.

Configuration page

Use the configuration page to check the configuration of the machine, including product, memory, and toner information, and the default settings.

- 1 Press Menu.
- 2 Press a scroll button until "3. Report" appears on the display.
- 3 Press Select.
- 4 Press a scroll button until "31. Configuration" appears on the display.
- 5 Press Select to print a configuration page.

Menu map

Use the menu map to check the available menu settings.

- 1 Press Menu.
- 2 Press a scroll button until “3. Report” appears on the display.
- 3 Press Menu.
- 4 Press a scroll button until “32. Menu Map” appears on the display.
- 5 Press Select to print a menu map.

Usage report

Use the usage report to identify printer usage statistics.

- 1 Press Menu.
- 2 Press a scroll button until “3. Report” appears on the display.
- 3 Press Menu.
- 4 Press a scroll button until “33. Usage report” appears on the display.
- 5 Press Select to print a usage report.

Error messages on the display

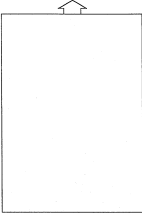

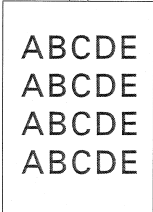
LCD line1	LCD line 2	Description
Paper Empty	PLS add paper	The media trays are empty.
Front Cover Open	PLS close cover	The printer's front door is open.
Rear Cover Open	PLS close cover	The printer's rear door is open.
Open front cover	Remove the paper	There is a media jam inside the printer's front door.
Paper Mismatch	Continue: START	The correct size media is not loaded in the tray.
[PRINTER ERROR]	Service Call	A service call is required. Contact your local vendor.
[PRINTER ERROR]	Toner Low	The toner cartridge is low and should be replaced.
PLS replace a	new Toner	The toner cartridge is empty and must be replaced.
Mem Low. 1 Copy	Press Stop/Clear	The printer is out of memory.
Unlock scanner	Continue: START	The scanner chassis is locked.
Open ADF cover	Remove the paper	There is a media jam in the ADF.
[SCANNER ERROR]	Lamp Error	There is a scanner lamp error. Call for service.
[SCANNER ERROR]	AFE R/W Error	There is a scanner AFE R/W error. Call for service.
[SCANNER ERROR]	Home Sensor	There is a scanner home sensor error. Call for service.
[SCANNER ERROR]	NVRAM R/W Fail	There is a scanner NVRAM R/W error. Call for service.

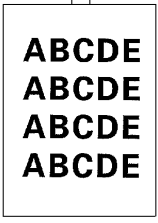
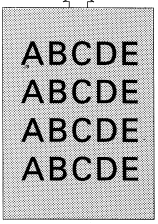
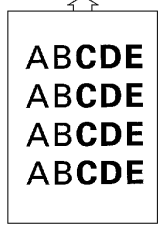
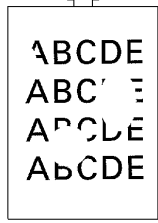
LCD line1	LCD line 2	Description
[SCANNER ERROR]	Motor Stall	There is a scanner motor stall error. Call for service.
[PRINTER ERROR]	Incorrect Toner	The toner cartridge is not a genuine KNOICA MINOLTA toner cartridge or not the correct type of toner cartridge. Replace the toner cartridge.

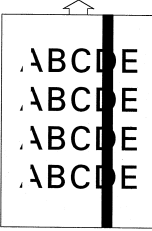

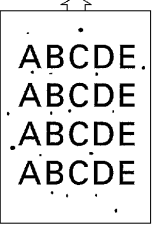




If you are using an NEC USB2.0 on-board or add-on card on your PC, you must update the driver to Microsoft release version 5.1.2600 or later.

Solving print quality problems

Symptom	Cause	Solution
Blank page 	The toner cartridge may be defective.	Remove the toner cartridge and check it for damage. Replace the toner cartridge, if necessary.
Black page 	The toner cartridge may be defective.	Remove the toner cartridge and check it for damage. Replace the toner cartridge, if necessary.
	Your machine may require servicing.	Contact your local vendor.
Print too light 	The toner cartridge may be running out of toner.	Remove the toner cartridge and shake it left and right a few times to distribute the remaining toner. If the problem persists, replace the toner cartridge.
	The toner cartridge may be defective.	Remove the toner cartridge and check it for damage. Replace the toner cartridge, if necessary.

Symptom	Cause	Solution
Print too dark 	The toner cartridge may be defective.	Remove the toner cartridge and check it for damage. Replace the toner cartridge, if necessary.
Blurred background 	The toner cartridge may be defective.	Remove the toner cartridge and check it for damage. Replace the toner cartridge, if necessary.
Uneven print density 	The toner may be unevenly distributed inside the toner cartridge.	Remove the toner cartridge and shake it left and right a few times to distribute the remaining toner.
	The toner cartridge may be defective.	Remove the toner cartridge and check it for damage. Replace the toner cartridge, if necessary.
	The image transfer roller may be defective.	Contact your local vendor.
Irregularities 	The media may have absorbed some moisture due to high humidity or because of direct contact with water.	Since toner will not adhere well to wet media, replace the media you are using with dry media and try printing again.

Symptom	Cause	Solution
<p>White or black lines</p> 	<p>The toner cartridge may be defective.</p>	<p>Remove the toner cartridge and check it for damage. Replace the toner cartridge, if necessary.</p>
<p>Dark lines on the edges.</p> 	<p>The transfer roller is dirty.</p>	<p>Contact your local vendor.</p>
<p>Toner smudges</p> 	<p>The toner may be unevenly distributed inside the toner cartridge.</p>	<p>Remove the toner cartridge and shake it left and right a few times to distribute the remaining toner.</p>
	<p>The toner cartridge may be defective.</p>	<p>Remove the toner cartridge and check it for damage. Replace the toner cartridge, if necessary.</p>
	<p>Smudges on the media indicate a dirty feed roller.</p>	<p>Contact your local vendor.</p>

Symptom	Cause	Solution
<p data-bbox="117 140 269 284">There is insufficient fusing or the image comes off when rubbed.</p> 	<p data-bbox="288 140 612 308">The media is moist from humidity.</p> <p data-bbox="288 220 600 308">Media with specifications not covered by the machine warranty is being used.</p>	<p data-bbox="631 140 953 196">Remove the moist media and replace it with new, dry media.</p> <p data-bbox="631 220 945 276">Use media that is covered by the machine warranty.</p>
<p data-bbox="117 560 269 727">The print image is not straight when the ADF is used to scan the document.</p> 	<p data-bbox="288 560 612 639">The document scanning position for scanning with the ADF is not aligned.</p>	<p data-bbox="631 560 953 727">Select “1. Common Setup”, then “Adjust ADF Edge” to adjust the scanning position. For details, refer to “Adjusting the image position” on page 93.</p>

***Installing
Accessories***

11

Introduction

Note

Use of accessories not manufactured or supported by KONICA MINOLTA will void your warranty.

This chapter provides information about the following accessory.

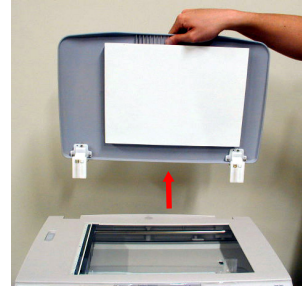
PagePro 1380 MF Auto Document Feeder Option (ADF)	Automatically feeds the loaded document one page at a time so that it can be scanned.
--	---

Note

Installing accessories always requires that the machine and accessories are turned off and unplugged during installation.

Installing the Auto Document Feeder (ADF)

- 1 Open the document cover, and then pull it up to remove it.



- 2 Insert the pins on the ADF into the holes at the rear of the machine.



- 3 Close the ADF lid.

Adjusting the image position

If the print image is not straight when the ADF is used to scan a document, use the following procedure to adjust the image position.

- 1 Press .

- 2 Press a scroll button  until "1. Common Setup" appears on the display.



- 3 Press .

- 4 Press a scroll button until "Adj. ADF Edge" appears on the display.

5 Press



6 Refer to the following table for the necessary adjustment direction.

Result	Adjustment Direction
 A rectangular frame containing the letter 'A' positioned towards the right side of the frame.	When the image is located too far to the right, adjust its position in the + (plus) direction.
 A rectangular frame containing the letter 'A' positioned towards the left side of the frame.	When the image is located too far to the left, adjust its position in the - (minus) direction.

Appendix

A

Specifications

	<i>B/W Laser AIO</i>
	<i>KONICA MINOLTA PagePro 1380 MF</i>
<i>Print System</i>	<i>B/W Laser (NC-L701 engine)</i>
Power Source	
Main Unit	110 V, 120–127 V, 220–240 V 50–50 Hz
Optional ADF	DC 24 V, DC 5 V (supplied by Main Unit)
Power Consumption	
Main Unit—110 V	792 W
Main Unit—120–127 V	864–915 W
Main Unit—220–240 V	990–1080 W
Optional ADF	Less than 30 W
Dimensions W x D x H	
Main Unit, including Original Cover	492 mm (14.7") x 465 mm (18.6") x 410 mm (16.2")
Optional ADF	497 mm (19.5") x 355 mm (14") x 80 mm (3.25")
Weight	
Main Unit	14.2 kg (31.3 lb)
Optional ADF	3.2 kg (7 lb)

<i>Printer Function</i>	
Print Speed (continuous printing)	21 ppm (letter), 20 ppm (A4)
First Print Time	17 seconds
Resolution	600 dpi
PDL	GDI language
Operating System	Windows XP/2000/Me/98SE
Interface	USB 2.0 Hi-Speed

Copier Function	
Copy Speed	20 cpm
Scan Resolution	1200 dpi
Copy Resolution	600 dpi
First-Copy Time	19 seconds
Warm-Up Time	21 seconds
Media Tray Capacity	250 sheets
Manual Feed Tray Capacity	1 sheet
Output Capacity	100 sheets
Max. Original Size (Flatbed Glass)	215.9 mm x 297 mm (8.5" x 11.69")
Max. Original Size (Optional ADF)	215.9 mm x 355.6 mm (8.5" x 14")
Standard System Memory	32 MB SDRAM
Optional ADF Capacity	50 pages
Image Mode Selection	Mixed, Text, Photo
Zoom Range	25% to 400%
1 to 1 Speed	20 cpm
2 in 1	Yes
Quantity Selector	1 to 99
Paper Weights (Flatbed Glass)	75 g/m ² (20 lb)
Paper Weights (Optional ADF)	75 g/m ² (20 lb)
Copy Size	A4, A5, B5, Letter, Legal
Halftones	64 levels
Copy Settings	Def Copy Mode, Def Density, Def Zoom, Def Collation, Def TonerSave

Scan Function	
Reading Method	CCD image sensor
Scan Speed (Color) A4	6 ppm
Scan Speed (Mono) A4	6 ppm
Scan Time (Color) A4	2.4 ms/line
Scan Time (Mono) A4	2.4 ms/line
Scan Resolution	1200 dpi
Input A/D	16 bits
Output A/D	8 bits
Image Data Type (Color)	Raw data (Image type depending on AP)
Image Data Type (Mono)	Raw data (Image type depending on AP)
Interface	USB 2.0 Hi-Speed
Max. Document Size (Flatbed Glass)	215.9 mm x 297 mm (8.5" x 11.69")
Max. Document Size (Optional ADF)	215.9 mm x 355.6 mm (8.5" x 14")
Bit Depth	16/48 bits
Scanning Element	CCD image sensor
Color Depth	24-bit
Grayscale Levels	256
Scanner Driver Support OS	Windows XP/2000/Me/98SE

Optional Function	
With Optional ADF	
Speed	
1 to 1 Speed (Mono)	15 cpm
Original Set Position	Center position
Original Size	215.9 mm x 355.6 mm (8.5" x 14")
Paper Set	
Sort (Collate)	Yes
2 in 1	Yes
4 in 1	Yes

Consumable Life Expectancy Chart

Item	Average Life Expectancy (in Simplex Pages)
Toner cartridge	At 5% coverage, using A4-size media Standard in-box Cartridge = 1,500 pages Replacement Cartridge = Standard-capacity: 3,000 pages (Continuous) 2,400 pages (Intermittent) High-capacity: 6,000 pages (Continuous) 4,800 pages (Intermittent)
Drum cartridge	20,000 pages (Continuous) 16,000 pages (Intermittent)

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See Auto Document Feeder

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